



PCT10

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/089,986

DATE: 04/25/2002
TIME: 11:51:22

Input Set : A:\EP.txt
Output Set: N:\CRF3\04252002\J089986.raw

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3 <110> APPLICANT: KUROSAWA, Keiko
4 KAJIYAMA, Naoki
5 <120> TITLE OF INVENTION: GENE ENCODING PROTEIN HAVING THE ABILITY TO REGENERATE
LUCIFERIN, NOVEL
7 RECOMBINANT DNA, PROCESS FOR THE PREPARATION OF PROTEIN HAVING THE ABILITY TO
8 REGENERATE LUCIFERIN
10 <130> FILE REFERENCE: 221609USOPCT
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/089,986
C--> 12 <141> CURRENT FILING DATE: 2002-04-08
12 <150> PRIOR APPLICATION NUMBER: PCT/JP00/06527
13 <151> PRIOR FILING DATE: 2000-09-22
15 <150> PRIOR APPLICATION NUMBER: JP285258/1999
16 <151> PRIOR FILING DATE: 1999-10-06
18 <160> NUMBER OF SEQ ID NOS: 11
20 <170> SOFTWARE: PatentIn version 3.1
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 924
24 <212> TYPE: DNA
25 <213> ORGANISM: Photinus pyralis
27 <220> FEATURE:
28 <221> NAME/KEY: misc_feature
29 <222> LOCATION: (843)..(843)
30 <223> OTHER INFORMATION: n is a, g, t, or c
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36 cactgggata atgaaactca gaccttatat ttctgtogaca cagttagagaa aacttttcat 120
38 aaatatgtac ctcttcagaa aaaatacacg ttttgaag tagataaact ggtttctttc 180
40 attattcccc ttgtgtgata ccttgccgtt ttgtagtca gtttggaacg tgaataagcc 240
42 attcttacct gggatggcgt tagtgctgca cctacaagca tagaagctat tgttaatgtc 300
44 gaaccacaca taaaaataa cagactcaat gatggcaaa gacatccctt tggcaatcta 360
46 tggacaggta caatggctat tgacgctggg ctccccgtag gaccgggtac tggcagttta 420
48 tatcatctag gggctgataa aaaggtataa atgcacgaga gaaacatagc tatagcaaat 480
50 gggctgcgct ggaagtaata atgtattata ttgattcggg gaaaagaaga 540
52 gttagacagt acgattatga gctcttata ttaaccatca gcaatcaacg gccattattt 600
54 acttttgaaa agcatgaagt gctcggttat ccaagacagc aaacaattga tggagagggt 660
56 aatttatggg ttgcccgttt ccaaggacag cgaattatta aaatcagtag ccaacaacgg 720
58 gaagtgttat tggataccgt aaaaatacca gatccctcag teacctctgt agcatttggc 780
60 ggtccgaatt tggatgaact gcatgtaaca tctgtgtgtc ttcagcttga cgacagttct 840
W--> 62 ttngacaaaa gtttagttaa tgggcacgtc tacagagtaa cagggttagg cgtcaaaagt 900
64 ttccggggag ttaaaagttaa gcta
67 <210> SEQ ID NO: 2
68 <211> LENGTH: 308
69 <212> TYPE: PRT
70 <213> ORGANISM: Photinus pyralis

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72 <400> SEQUENCE: 2
 74 Met Gly Pro Val Val Glu Lys Ile Ala Glu Leu Gly Lys Tyr Thr Val
 75 1 5 10 15
 78 Gly Glu Gly Pro His Trp Asp His Glu Thr Gln Thr Leu Tyr Phe Val
 79 20 25 30
 82 Asp Thr Val Glu Lys Thr Phe His Lys Tyr Val Pro Ser Gln Lys Lys
 83 35 40 45
 86 Tyr Thr Phe Cys Lys Val Asp Lys Leu Val Ser Phe Ile Ile Pro Leu
 87 50 55 60
 90 Ala Gly Ser Pro Gly Arg Phe Val Val Ser Leu Glu Arg Glu Ile Ala
 91 65 70 75 80
 94 Ile Leu Thr Trp Asp Gly Val Ser Ala Ala Pro Thr Ser Ile Glu Ala
 95 85 90 95
 98 Ile Val Asn Val Glu Pro His Ile Lys Asn Asn Arg Leu Asn Asp Gly
 99 100 105 110
 102 Lys Ala Asp Pro Leu Gly Asn Leu Trp Thr Gly Thr Met Ala Ile Asp
 103 115 120 125
 106 Ala Gly Leu Pro Val Gly Pro Val Thr Gly Ser Leu Tyr His Leu Gly
 107 130 135 140
 110 Ala Asp Lys Lys Val Lys Met His Glu Ser Asn Ile Ala Ile Ala Asn
 111 145 150 155 160
 114 Gly Leu Ala Trp Ser Asn Asp Leu Lys Lys Met Tyr Tyr Ile Asp Ser
 115 165 170 175
 118 Gly Lys Arg Arg Val Asp Glu Tyr Asp Tyr Asp Ala Ser Thr Leu Ser
 119 180 185 190
 122 Ile Ser Asn Gln Arg pro Leu Phe Thr Phe Glu Lys His Glu Val Pro
 123 195 200 205
 126 Gly Tyr Pro Asp Gly Gln Thr Ile Asp Glu Glu Gly Asn Leu Trp Val
 127 210 215 220
 130 Ala Val Phe Gln Gly Gln Arg Ile Ile Lys Ile Ser Thr Gln Gln Pro
 131 225 230 235 240
 134 Glu Val Leu Leu Asp Thr Val Lys Ile Pro Asp Pro Gln Val Thr Ser
 135 245 250 255
 138 Val Ala Phe Gly Gly Pro Asn Leu Asp Glu Leu His Val Thr Ser Ala
 139 260 265 270
 142 Gly Leu Gln Leu Asp Asp Ser Ser Leu Asp Lys Ser Leu Val Asn Gly
 143 275 280 285
 146 His Val Tyr Arg Val Thr Gly Leu Gly Val Lys Gly Phe Ala Gly Val
 147 290 295 300
 150 Lys Val Lys Leu
 151 305
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 155 <211> LENGTH: 24
 156 <212> TYPE: DNA
 157 <213> ORGANISM: Artificial Sequence
 159 <220> FEATURE:
 160 <223> OTHER INFORMATION: synthetic DNA
 162 <400> SEQUENCE: 3
 163 gttggagaag gaccgatttg ggaat

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168 <212> TYPE: DNA
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172 <223> OTHER INFORMATION: synthetic DNA
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178 <210> SEQ ID NO: 5
179 <211> LENGTH: 20
180 <212> TYPE: DNA
181 <213> ORGANISM: Artificial Sequence
183 <220> FEATURE:
184 <223> OTHER INFORMATION: synthetic DNA
186 <400> SEQUENCE: 5
187 ggaacaggtac aatgctatt 20
190 <210> SEQ ID NO: 6
191 <211> LENGTH: 20
192 <212> TYPE: DNA
193 <213> ORGANISM: Artificial Sequence
195 <220> FEATURE:
196 <223> OTHER INFORMATION: synthetic DNA
198 <400> SEQUENCE: 6
199 atcgtactcg tctactcttc 20
202 <210> SEQ ID NO: 7
203 <211> LENGTH: 22
204 <212> TYPE: DNA
205 <213> ORGANISM: Artificial Sequence
207 <220> FEATURE:
208 <223> OTHER INFORMATION: synthetic DNA
210 <400> SEQUENCE: 7
211 taaggtgcagc actaacgcc a tc 22
214 <210> SEQ ID NO: 8
215 <211> LENGTH: 21
216 <212> TYPE: DNA
217 <213> ORGANISM: Artificial Sequence
219 <220> FEATURE:
220 <223> OTHER INFORMATION: synthetic DNA
222 <400> SEQUENCE: 8
223 ttcacgttcc aaactgacta c 21
226 <210> SEQ ID NO: 9
227 <211> LENGTH: 23
228 <212> TYPE: DNA
229 <213> ORGANISM: Artificial Sequence
231 <220> FEATURE:
232 <223> OTHER INFORMATION: synthetic DNA
234 <400> SEQUENCE: 9
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238 <210> SEQ ID NO: 10

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239 <211> LENGTH: 33
240 <212> TYPE: DNA
241 <213> ORGANISM: Artificial Sequence
243 <220> FEATURE:
244 <223> OTHER INFORMATION: synthetic DNA
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247 ggaattcatg gggccagttg ttgaaaaaat tgc
250 <210> SEQ ID NO: 11
251 <211> LENGTH: 35
252 <212> TYPE: DNA
253 <213> ORGANISM: Artificial Sequence
255 <220> FEATURE:
256 <223> OTHER INFORMATION: synthetic DNA
258 <400> SEQUENCE: 11 35
259 aactgcagtc atagcttcac tttaactccc gcgaa
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RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 843

VERIFICATION SUMMARY

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:62 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:840